

Title (en)
Acrylic synthetic fiber and process for preparation thereof

Title (de)
Acrylfaser und Verfahren zur Herstellung

Title (fr)
Fibre acrylique et procédé pour sa fabrication

Publication
EP 0376625 B1 19960918 (EN)

Application
EP 89313416 A 19891221

Priority
• JP 2877389 A 19890209
• JP 3504089 A 19890216
• JP 32889188 A 19881228

Abstract (en)
[origin: EP0376625A2] An acrylic synthetic fiber having in the transverse section thereof many openings having an indeterminate shape and a size of 0.1 to 1.6 μm , wherein in the interior of the fiber, each opening forms a vein-like or straw-like void extending substantially in parallel to the longitudinal axis of the fiber and having a length of at least 60 μm . This acrylic fiber is prepared by a) dissolving in a suitable solvent an acrylic polymer comprising at least 60 weight% of an acrylonitrile unit and 5 to 20 weight %, based on the weight of the acrylic polymer, of a polyalkylene glycol having a number average molecular weight of 5,000 to 50,000, b) aging the formed spinning solution for at least 4 hours, and c) extruding the spinning solution into a coagulating medium. The acrylic fiber is useful, e.g., as a frictional material comprising (a) a pulpy material made from the acrylic fiber, (b) a resin and (c) a filler.

IPC 1-7
D01F 6/54; **D01D 5/247**

IPC 8 full level
D01D 5/247 (2006.01); **D01F 6/54** (2006.01)

CPC (source: EP KR)
D01D 5/247 (2013.01 - EP); **D01F 6/18** (2013.01 - KR); **D01F 6/38** (2013.01 - KR); **D01F 6/54** (2013.01 - EP)

Cited by
EP0594435A1; US5458958A

Designated contracting state (EPC)
BE DE FR GB IT

DOCDB simple family (publication)
EP 0376625 A2 19900704; **EP 0376625 A3 19910508**; **EP 0376625 B1 19960918**; AU 4723089 A 19900705; AU 612918 B2 19910718; CA 2006493 A1 19900628; CA 2006493 C 19951128; DE 68927225 D1 19961024; DE 68927225 T2 19970220; KR 900010072 A 19900706; KR 920007107 B1 19920824

DOCDB simple family (application)
EP 89313416 A 19891221; AU 4723089 A 19891222; CA 2006493 A 19891222; DE 68927225 T 19891221; KR 890019900 A 19891228